Identifying the Studies, Part 3: Case Studies


Related articles/resources to type of systematic review:


CASE STUDY 5: ECONOMIC QUESTIONS WITHIN THE DISCIPLINE OF ENGINEERING

Margaret J. Foster

Planning

**Question:** What are the most cost-effective methods to mitigate greenhouse gas emissions in truck transportation?

**Framework:** This question can be framed with the CIMO (context, intervention, mechanisms, outcomes) framework designed for management or policy questions, as shown in box 7.5 (Denyer and Tranfield, 2009).
TEXTBOX 7.5. FRAMEWORK FOR CASE STUDY 5

C (context): truck transportation
I (intervention): mitigation methods for greenhouse gas emissions
M (mechanisms): policies
O (outcomes): economic impacts

Identifying
Concepts searched: [trucks] and [economics] and [greenhouse gases]

Bibliographic Databases:

Compendex

(((cost benefit analysis) OR (cost effectiveness) OR (cost reduction) OR (costs) OR (economics) OR (greenhouse gases) OR (fluorocarbons) OR (greenhouse effect) OR (methane) OR (carbon dioxide) OR (nitrogen oxides) OR (ozone) OR (sozone) OR (halocarbon) OR (sfreon) OR (chlorofluorocarbon) OR (truck transportation) OR (trucks) OR (trailers—motor truck) OR (trailers) OR (transport*) OR (truck*) AND (truck) OR (WV KY)))

Web of Science

[TS=(truck* near/3 (trailer* or transport* or haul* or tractor*))]) AND [TS=(cost* or economic*)] AND [TS=(greenhouse or methane or “carbon dioxide” or “nitrous oxide” or ozone* or chlorofluorocarbon* or halocarbon* or freon*)]

Mechanical & Transportation Engineering Abstracts (Proquest)

(SU.EXACT(“Trailer-truck combinations”) OR SU.EXACT(“Truck trailers”) OR SU.EXACT(“Fleet trucks”) OR SU.EXACT(“Truck-trailer combinations”) OR SU.EXACT(“Truck transportation”) OR SU.EXACT(“Truck”) OR ab(truck* OR tractor* OR trailer*) AND (SU.EXACT(“Greenhouse gases”) OR SU.EXACT(“Greenhouse effect”) OR ab(greenhouse or methane or “carbon dioxide” or “nitrous oxide” or ozone* or chlorofluorocarbon* or halocarbon* or freon*)) AND ((SU.EXACT(“Cost benefit analysis”))
OR SU.EXACT("Cost analysis") OR SU.EXACT("Minimum cost") OR SU.EXACT("Cost reduction") OR SU.EXACT("Cost effectiveness") OR SU.EXACT("Mitigation costs") OR ab(cost* or economic*)

TRANSPORT Database (Ovid)
((cost* or economic*) and (greenhouse or methane or "carbon dioxide" or "nitrous oxide" or ozone* or chlorofluorocarbon* or halocarbon* or freon*)) and (truck* or tractor* or trailer*).af.

Grey Literature:

TRID
TRB’s Transportation Research Information Services (TRIS) Database and the OECD’s Joint Transport Research Centre’s International Transport Research Documentation (ITRD) Database:
(truck* AND (cost* or economic*) AND (greenhouse or methane or “carbon dioxide” or “nitrous oxide” or ozone* or chlorofluorocarbon* or halocarbon* or freon*))

National Transportation Library
(kw:truck* OR kw:trailer*) AND (kw:cost OR kw:costs OR kw:economic*)
AND (kw:greenhouse OR kw:methane OR kw:“carbon dioxide” OR kw:“nitrous oxide” OR kw:ozone* OR kw:chlorofluorocarbon* OR kw:halocarbon* OR kw:freon*)

New Jersey Environmental Digital Library:
Browse at http://njjedl.rutgers.edu

Related Resource

CASE STUDY 6: QUESTION ON RISK OR PROTECTION IN THE PUBLIC HEALTH FIELD

Sarah T. Jewell

Planning

Question: What are the risk factors that increase adolescent females’ chance of developing human papillomaviruses (HPV)?
Framework: This question can be framed with the PEO (population, exposure, outcome), as shown in box 7.6 (Kahn et al. 2003).
TEXTBOX 7.6. FRAMEWORK FOR CASE STUDY 6

P (population): adolescent females
E (exposure): risk factors
O (outcome): diagnosis of a human papillomavirus

Identifying

Concepts searched: [adolescent] and [human papillomaviruses] and [risk]

Bibliographic Databases:

PubMed

(((“Risk”[Mesh] OR “Risk Factors”[Mesh]) OR risk*[Title/Abstract])) AND ((“Papillomaviridae”[Mesh]) OR (hpv[Title/Abstract] OR Papillomaviruses[Title/Abstract])) AND ((“Adolescent”[Mesh]) OR (adolescen*[Title/Abstract] OR teen*[Title/Abstract] OR youth*[Title/Abstract]))

CINAHL (EBSCO)

[(MH “Adolescence+”) OR TI (adolescen* or teen* or youth*) OR AB (adolescen* or teen* or youth*)] AND [(MH “Risk Factors+”) OR TI risk* OR AB risk*] AND [(MH “Papillomaviruses”) OR TI (hpv or Papillomaviruses) OR AB (hpv or Papillomaviruses)]

Embase (Ovid)

[exp papillomaviridae/ or (Papillomaviruses or hpv).ti,ab.] AND [exp adolescent/ or (adolescen* or teen* or youth*).ti,ab.] AND [exp risk/ or (risk*).ti,ab.]

Grey Literature:

• National Foundation for Infectious Diseases: http://http://www.nfidi.org/publications
• ClinicalTrials.gov

Hand Searching:

• Virus Research
• Vaccine

Related Resources